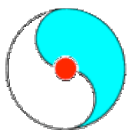




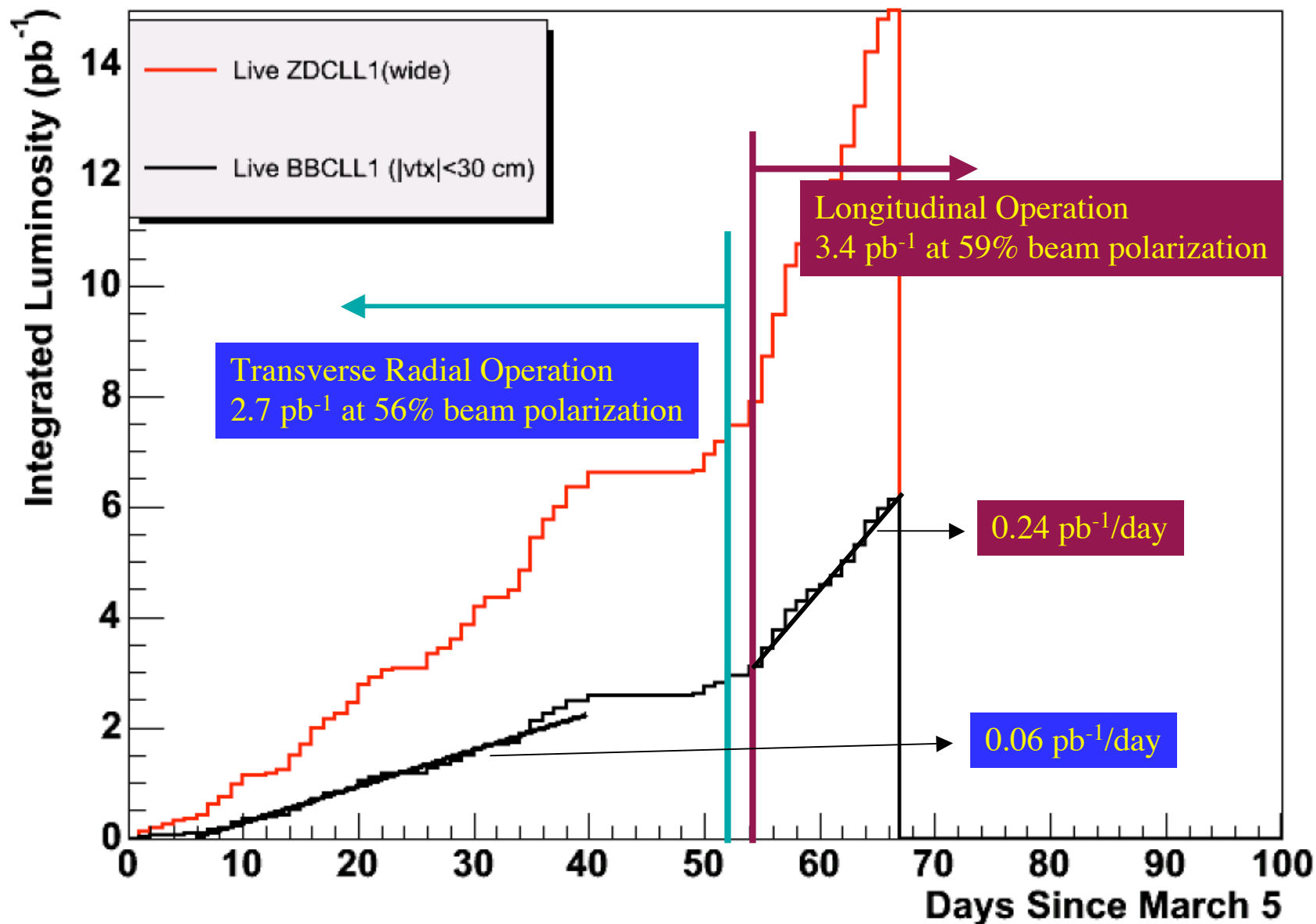
Run-6 Status

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Time and Scheduling Meetings
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Progress so far...



Accumulations....

- **So far:** (200 GeV CM longitudinal collisions)
 - 3.4 pb⁻¹ at 59% : P⁴L = 0.41
 - To put it in perspective: Compare to Run-5 P⁴L = 0.16
 - **Data taking rate 0.24 pb⁻¹/day; early run was 0.06 pb⁻¹/day**
 - **We already have 2.7 pb⁻¹ at 56% polarization radial data set**
- **Aspirations:**
 - **Can expect to achieve ~9 pb⁻¹ at ~60% polarization this run!**
 - **A wonderful input for physics outcome at 200 GeV**
 - 22 GeV CM test + operations(?)
 - 62.4 GeV CM ~2 weeks
 - 500 GeV machine development and whatever data we can record

How close to 62.4 GeV CM?

Answer

+/- 0.1 GeV, and no more for the comparison data set

Why so close?

- For R_{AA} measurements, we want to compare cross sections of AA-pp collisions at the same p_T and same CM
- The cross sections fall typically like p_T^{-10} , as such a small difference in CM can introduce large systematic errors in the ratio.
- +/- 0.1 GeV in CM will introduce $\sim 2\%$ uncertainty which we believe is acceptable for this measurement

Sequence of Operations

For PHENIX both 62.4 GeV CM [HI and Spin] **and** 500 GeV Machine Commissioning [future Spin] are Important

- Generally a good idea to have data in the bag first! With this guiding principle: 62.4 GeV data set before 500 GeV machine commissioning
- Early 500 GeV: as a result of the reality that CA conference to interfere with 500 GeV machine development at the end?
 - **Cons:**
 - **Main Concern:** Heat/humidity might result in more interruption in the later 62.4 GeV data accumulations
 - Exp/DAQ stop for 5-6 days? Expect problems with re-startup
 - **Pros:** If 500 GeV machine study ends early:
 - Can we expect a data taking period for 22 GeV based on the earlier test?
 - Can expect to run longer (to the end) flat out at 62.4 GeV CM